



CASE STUDY

Dairy Farm in SIMPSON



Our Energy Management System (EMS) was installed in a family-run dairy farm in Simpson, a town in the South-West region of Victoria.

We've been closely monitoring the usage after integrating EMS into the site. In a month time, we managed to track the individual usage of the system, heaters, chillers as well as the solar generation.

Based on the data we've collected, we developed strategies for a smoother and more efficient operation. Our EMS system will turn on the heaters and other loads when there is excessive power.

By achieving higher solar penetration, the user will receive a better return of the solar system.



Why Greenbox Solutions?

With more than 7 years of experiences in the electrical and renewable industry. We offer customized and comprehensive energy control solutions to meet the individual need of each of the project.

Key Benefits of Our EMS:

1

Modular Metering

Can monitor various types of loads, able to track up to 50 circuits on site

2

Easy Retrofit

Quickly and easy install with a compact enclosure near the switchboards

3

Cloud-Based Control

Provides real-time insights, able to control remotely via our EMS cloud platform

Contact Us for DETAILS

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GREENBOX



Energy Management System

Figure 1.1

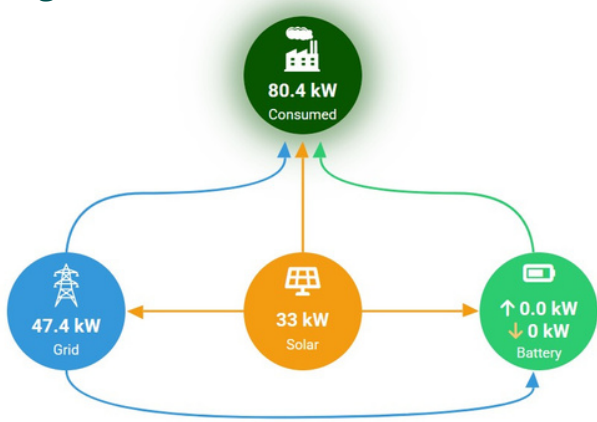
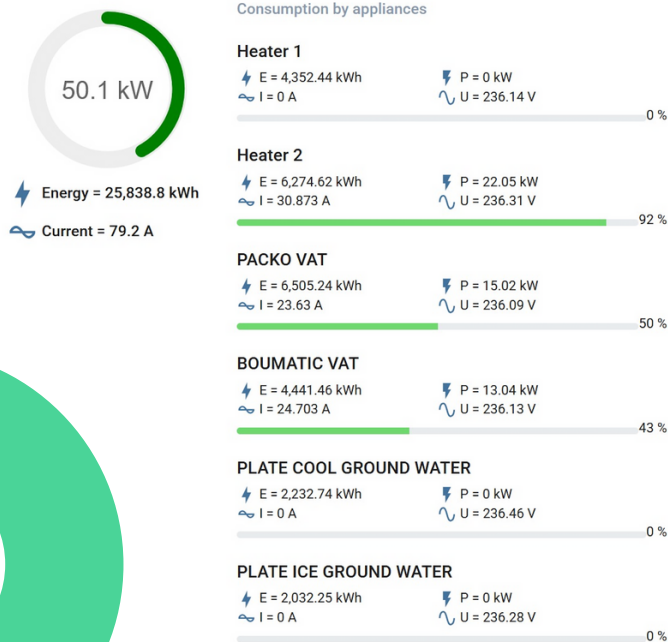


Figure 1.2



Energy Consumption

In figures 1.1 & 1.2 you can see real time data of energy usage from our EMS portal.

With using our EMS, the user can review the detailed breakdown of energy usage and generation, the user is able to monitor and control energy consumption and flow of the energy.

Figure 2.1

Energy Usage

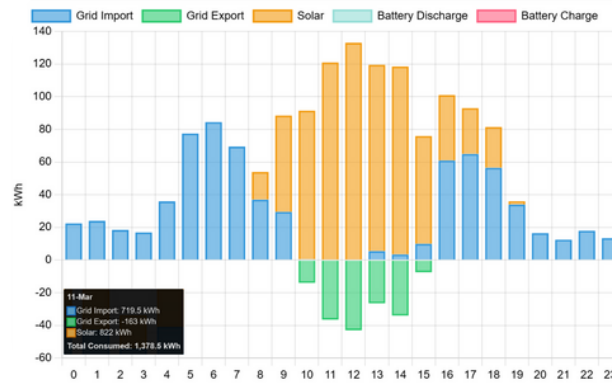
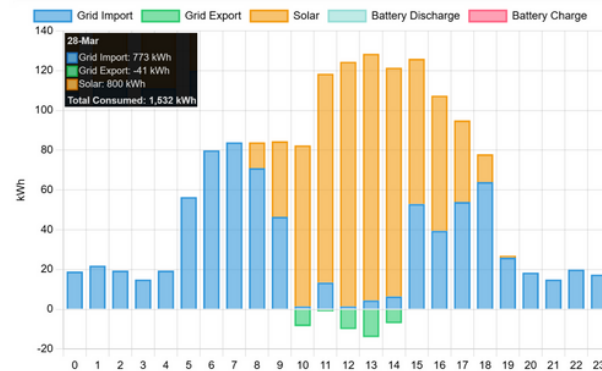


Figure 2.2

Energy usage



Solar Energy Generation

Figures 2.1 & 2.2 both show strong solar generation days for the dairy farm site.

By turning on the load while there's excess solar generation. We managed to reduce solar export to the grid thus cut the costs of energy bills.

Core Features of our EMS

Our Energy Management System (EMS) can help organizations save significant savings by identifying inefficiencies and optimizing energy use. By employing advanced analytics and real-time monitoring, these systems pinpoint areas of energy waste, enabling informed adjustments.



Bird's-eye view monitoring

To achieve real-time energy monitoring and detailed breakdown of energy usage



Reduce demand charges

Shave-off peak demand and cut the costs of electricity bills



Optimize Energy Use

Energy Power is use at the right time and right place



Virtual Power Plant (VPP)

To participate in energy trading market